

Title (en)
D2D COMMUNICATION DEVICES AND METHOD OF TRANSMISSION FOR OVERLAPPED D2D RESOURCE POOLS

Title (de)
D2D-KOMMUNIKATIONSVORRICHTUNGEN UND VERFAHREN ZUR ÜBERTRAGUNG VON ÜBERLAPPENDEN D2D-RESSOURCENPOOLS

Title (fr)
DISPOSITIFS DE COMMUNICATION D2D ET PROCÉDÉ DE TRANSMISSION DESTINÉ À DES GROUPES DE RESSOURCES D2D SE CHEVAUCHANT

Publication
EP 3216294 A4 20180620 (EN)

Application
EP 15856892 A 20151006

Priority
• US 201462076173 P 20141106
• US 201514669340 A 20150326
• US 2015054157 W 20151006

Abstract (en)
[origin: WO2016073111A1] An evolved Node-B (eNB), user equipment (UE) and method for handling overlapping resource pools for device-to-device (D2D) transmission are generally described. Resources for D2D communication with at least one other UE may be requested by the UE. The allocated pools may overlap. The overlapping pools may comprise pools of the same type or different types. The types of pools may include a discovery pool, a Scheduling Assignment (SA) pool and a Mode-2 data pool. The eNB may resolve conflict among the pools by transmitting an indication of allocation of only one of the pools or may permit the UE to determine which pool to use for transmission. The pool may be selected based on at least one of usage index, configuration identity, and usage priority. The usage index may include traffic types, mode switching, L2 control, UE classification, data rate, real-time/non-real time, latency, and Quality of Service (QoS).

IPC 8 full level
H04W 72/04 (2009.01); **H04W 76/14** (2018.01); **H04W 92/18** (2009.01)

CPC (source: EP US)
H04W 72/04 (2013.01 - EP US); **H04W 72/23** (2023.01 - US); **H04W 76/14** (2018.01 - EP US); **H04W 72/566** (2023.01 - US);
H04W 92/18 (2013.01 - EP US)

Citation (search report)

- [E] EP 3128782 A1 20170208 - LG ELECTRONICS INC [KR]
- [XAI] SESSION CHAIRMAN (ALCATEL-LUCENT): "Chairman's Notes of Agenda Item 7.2.1 LTE Device to Device Proximity Serv", vol. RAN WG1, no. Ljubljana, Slovenia; 20141006 - 20141010, 14 October 2014 (2014-10-14), XP050885188, Retrieved from the Internet <URL:http://www.3gpp.org/ftp/tsg_ran/WG1_RL1/TSGR1_78b/Docs/> [retrieved on 20141014]
- [XAI] QUALCOMM INCORPORATED: "RRC Parameters for D2D", vol. RAN WG1, no. Ljubljana, Slovenia; 20141006 - 20141010, 5 October 2014 (2014-10-05), XP050875281, Retrieved from the Internet <URL:http://www.3gpp.org/ftp/Meetings_3GPP_SYNC/RAN1/Docs/> [retrieved on 20141005]
- [XAI] LG ELECTRONICS: "Remaining issues for D2D control and data transmission", vol. RAN WG1, no. Ljubljana, Slovenia; 20141006 - 20141010, 5 October 2014 (2014-10-05), XP050875328, Retrieved from the Internet <URL:http://www.3gpp.org/ftp/Meetings_3GPP_SYNC/RAN1/Docs/> [retrieved on 20141005]
- [A] "3rd Generation Partnership Project; Technical Specification Group Radio Access Network; Study on LTE Device to Device Proximity Services; Radio Aspects (Release 12)", 3GPP STANDARD ; TECHNICAL REPORT ; 3GPP TR 36.843, 3RD GENERATION PARTNERSHIP PROJECT (3GPP), MOBILE COMPETENCE CENTRE ; 650, ROUTE DES LUCIOLES ; F-06921 SOPHIA-ANTIPOLIS CEDEX ; FRANCE, vol. RAN WG1, no. V12.0.1, 27 March 2014 (2014-03-27), pages 1 - 50, XP051293307
- [XP] INTEL CORPORATION: "On Overlap of Multiple D2D Resource Pools and UE Behavior", vol. RAN WG1, no. San Francisco, USA; 20141117 - 20141121, 8 November 2014 (2014-11-08), XP050885353, Retrieved from the Internet <URL:http://www.3gpp.org/ftp/tsg_ran/WG1_RL1/TSGR1_79/Docs/> [retrieved on 20141108]
- See references of WO 2016073111A1

Cited by
EP4161162A1; CN111148233A

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
WO 2016073111 A1 20160512; EP 3216294 A1 20170913; EP 3216294 A4 20180620; EP 3216294 B1 20200805; US 2016135239 A1 20160512; US 9888508 B2 20180206

DOCDB simple family (application)
US 2015054157 W 20151006; EP 15856892 A 20151006; US 201514669340 A 20150326